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(54) **ABSORBENT SHEET FOR PETS**
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See application file for complete search history.

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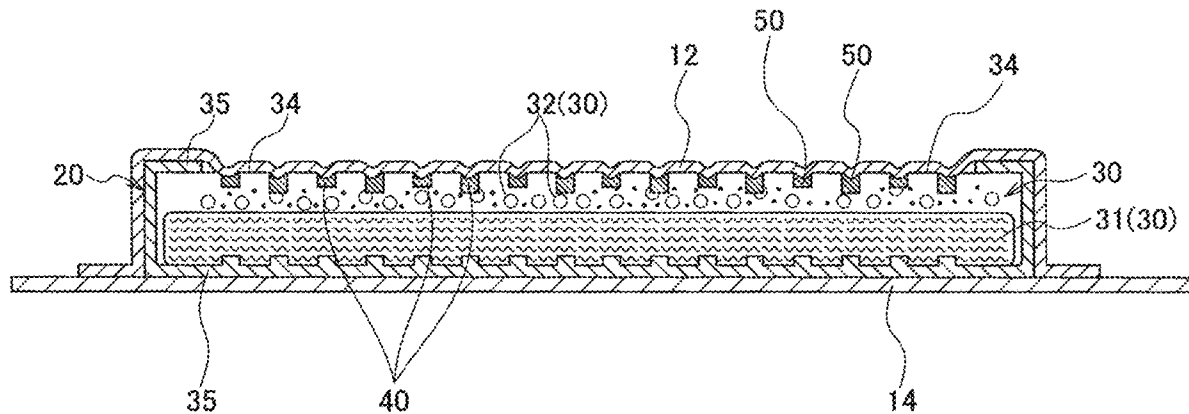
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(57) **ABSTRACT**
the absorbent sheet for pets which can suppress the outflow of a functional material is provided. An absorbent sheet (10) for pets includes a topsheet (12), a backsheet (14), an absorber (20) provided between the topsheet and the backsheet, a functional (40) material, and a recess (50) that is recessed in a direction from the topsheet toward the backsheet. The functional material (40) is provided at a position of the recess (50).

14 Claims, 2 Drawing Sheets



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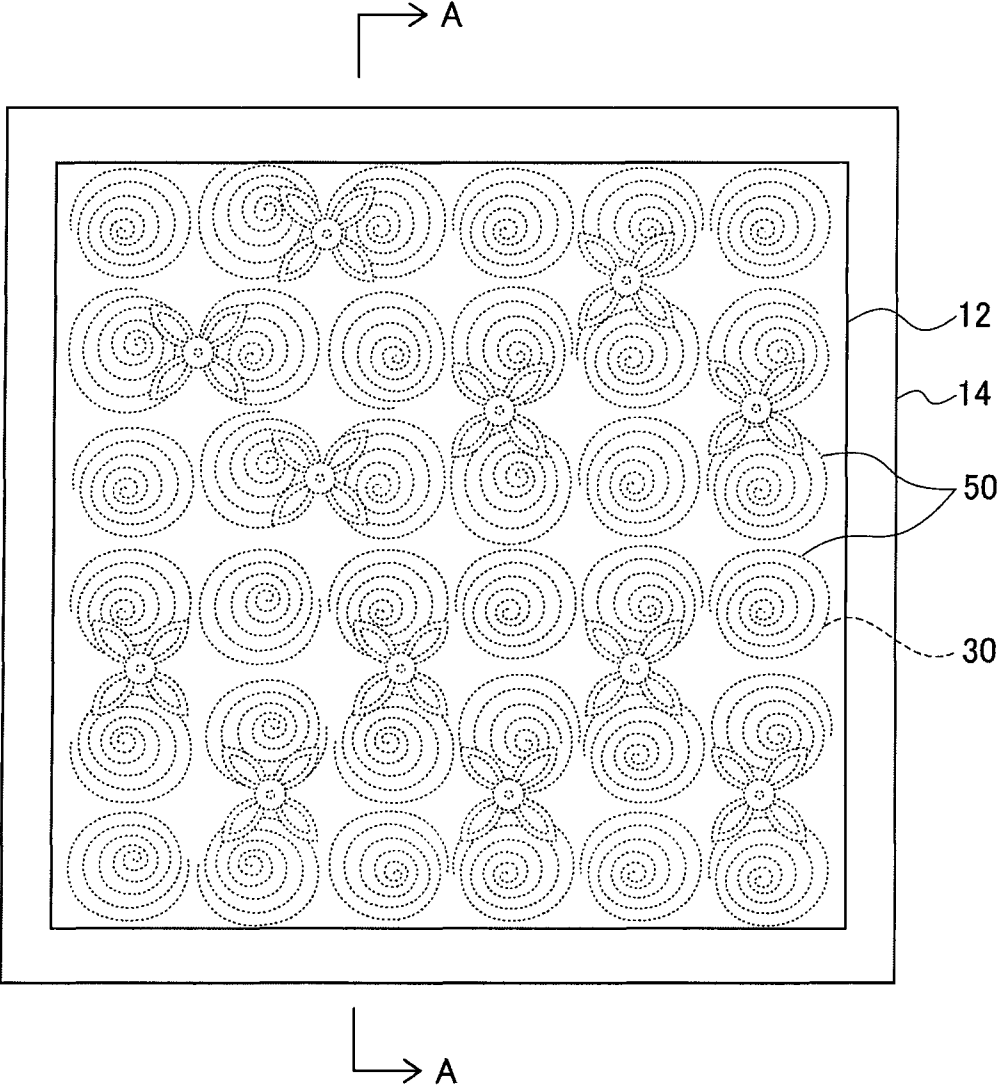
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FIG. 1



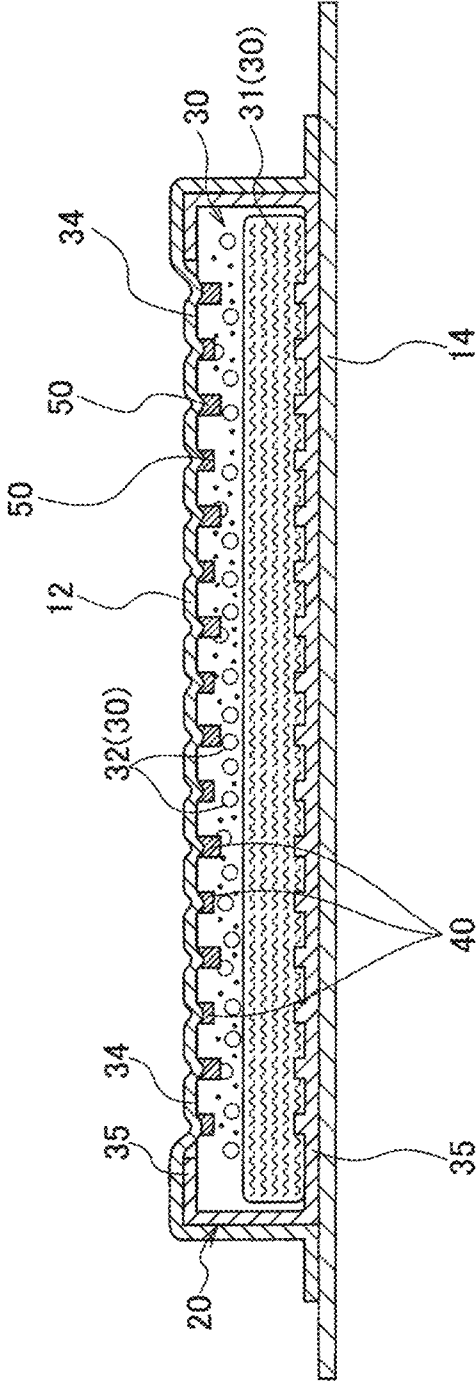


FIG. 2

ABSORBENT SHEET FOR PETS

RELATED APPLICATIONS

This application is a 35 U.S.C. 371 national stage filing from international application No. PCT/JP2018/006306, filed Feb. 21, 2018, which claims priority to Japanese Application No. 2017-118129, filed Jun. 15, 2017, the teachings of which are incorporated herein by reference.

TECHNICAL FIELD

The present invention relates to an absorbent sheet for pets that absorbs pet excreta such as urine.

BACKGROUND ART

An absorbent sheet for pets that absorbs pet excreta such as urine is known (see Patent Literature 1 and Patent Literature 2 below). The absorbent sheet for pets includes a liquid-impermeable backsheet, a liquid-permeable topsheet, and an absorber positioned between the backsheet and the sheet.

Patent Literature 1 discloses an absorbent sheet for pets provided with a topsheet to which a chemical solution containing at least one of a fragrance component, a deodorizing component, and a sterilizing component is attached.

Patent Literature 2 discloses an absorbent sheet for pets having a pH determination portion formed of a functional ink that functions by moisture. This pH determination portion is provided on the topsheet or the sheet body adjacent to the back side of the topsheet.

CITATION LIST

Patent Literature

Patent Literature 1: JP 2006-238745 A

Patent Literature 2: JP 2013-179858 A

SUMMARY OF INVENTION

In Patent Literature 1 and Patent Literature 2, a functional material such as a fragrance component, a deodorizing component, a sterilizing component, or a functional ink is provided on the topsheet or a sheet adjacent to the topsheet.

However, when the pet scratches the surface of the absorbent sheet for pets, the functional material may flow out from a scratch or a tear of the topsheet. Therefore, before continuing to use the absorbent sheet for pets for a long period of time during which the pet performs the excretion action a plurality of times, the function of the functional material may deteriorate.

Therefore, an absorbent sheet for pets that can suppress the outflow of the functional material is desired.

BRIEF DESCRIPTION OF DRAWINGS

An absorbent sheet for pets according to an embodiment includes a topsheet, a backsheet, an absorber provided between the topsheet and the backsheet, a functional material, and a recess that is recessed in a direction from the topsheet toward the backsheet. The functional material is provided at a position of the recess.

FIG. 1 is a plan view of an absorbent sheet for pets according to a first embodiment.

FIG. 2 is a schematic cross-sectional view of the absorbent sheet for pets taken along line A-A shown in FIG. 1.

DESCRIPTION OF EMBODIMENTS

(1) Outline of Embodiment

At least the following matters will become apparent from the description of the present specification and the accompanying drawings.

According to a preferred embodiment, an absorbent sheet for pets includes a topsheet, a backsheet, an absorber provided between the topsheet and the backsheet, a functional material, and a recess that is recessed in a direction from the topsheet toward the backsheet. The functional material is provided at a position of the recess.

According to this aspect, the functional material is provided at the position of the recess. In other words, the functional material is provided at a position recessed relative to the outermost top face of the absorbent sheet for pets. Therefore, even when the pet scratches the outermost top face of the absorbent sheet for pets, the outflow of the functional material can be suppressed.

According to a preferred embodiment, the functional material is provided closer to the absorber than to the topsheet at the position of the recess.

According to this aspect, since the functional material is provided closer to the absorber than to the topsheet, even when the pet scratches the outermost top face of the absorbent sheet for pets, the outflow of the functional material can be further suppressed.

According to a preferred embodiment, the recess is formed by at least an embossed portion obtained by compressing the absorber.

The embossed portion is generally formed by compressing at least the absorber with the projection of the emboss roller. By applying a functional material to the projection of the emboss roller, the functional material can be accurately transferred to the position of the embossed portion. That is, the functional material can be easily transferred accurately to the embossed portion by forming the recess with the embossed portion.

According to a preferred embodiment, the functional material includes a water resistant agent. A water resistant agent can control the diffusion of pet excreta. In this aspect, the water resistant agent is provided at the position of the recess and is located inside in the thickness direction. Therefore, it is possible to prevent excreta absorbed by the absorber from spreading in a circular shape inside the absorber.

Also, when it is possible to suppress the spread of excreta which was discharged once, it is possible to secure a region that has not absorb excreta, so that the pet can perform the excretion action again in the region that has not absorbed excreta. For example, a pet such as dogs has the habit of not performing the excretion action again where urinary traces are visible. Therefore, when the diffusion of excreta can be appropriately controlled by the water resistant agent and the pattern of the recesses, the absorbent sheet for pets can be continuously used for a long period of time during which the excretion action is performed a plurality of times.

According to a preferred embodiment, the water resistant agent includes a water resistant resin. According to this aspect, a coating film of the water resistant agent can be easily formed at the position of the recess by solidifying the resin by volatilization/drying after discharging the solvent containing the resin to the recess.

According to a preferred embodiment, the functional material has hydrophobicity. In general, when the absorbent sheet for pets absorbs pet excreta, for example, urine, the region that has absorbed the excreta has a dull color. In this aspect, by providing a functional material having hydrophobicity at the position of the recess, the void between the fibers on the surface of the recess is covered with the functional material, and it is difficult to absorb the excreta at the position of the recess. Therefore, even when the absorbent sheet for pets absorbs excreta, there is a difference in appearance between the position of the recess and the region around the recess. As a result, the user can distinguish easily the region which is wet with excreta, and the region which is not wet. The user can easily recognize the timing of replacing the absorbent sheet for pets by recognizing the wet region and the non-wet region.

According to a preferred embodiment, the functional material includes a colorant. According to this aspect, since the colorant is provided at the position of the recess, a color difference occurs between the position of the recess and the region around the recess when viewed from the topsheet. This color difference makes it easier for the user to recognize the depth of the recess, and hence the thickness of the absorbent sheet for pets. When the user feels that the absorbent sheet for pets is thick, it is possible to give the user a sense of security that the absorbent sheet for pets can withstand the excretion action a plurality of times.

According to a preferred embodiment, a difference between a saturation at a position of the recess and a saturation at a region around the recess when viewed from the topsheet is 10% or more. This makes it easier to recognize the color difference between the position of the recess and the region around the recess, and thus makes it easier to feel the thickness of the absorbent sheet for pets.

According to a preferred embodiment, the saturation at the position of the recess is higher than the saturation at the region around the recess. By making the color at the position of the recess more vivid than the region around the recess, it is easier to recognize the color difference between the position of the recess and the region around the recess, and therefore, it is easier to feel the thickness of the absorbent sheet for pets.

According to a preferred embodiment, the saturation at the region around the recess is less than 5%. As a result, the region around a recess becomes substantially achromatic. Accordingly, a recess having more vivid saturation is disposed in the background of the achromatic color, and the user feels the depth of the recess deeper due to the illusion effect. Therefore, the thickness of the absorbent sheet for pets can be easily felt by the user.

According to a preferred embodiment, part of the backsheet extends outward of the topsheet. A difference between the saturation at the position of the recess and a saturation of the backsheet is less than 5%. By making the saturation at the position of the recess close to the saturation of the backsheet, the user can feel that the bottom of the recess is close to the position of the backsheet in the thickness direction. This makes the user feel that the thickness of the recess is thick, so that the thickness of the absorbent sheet for pets can be more easily felt by the user.

According to a preferred embodiment, part of the backsheet extends outward of the topsheet. A difference between a hue at the position of the recess and a hue of the backsheet is less than 30 degrees.

According to this aspect, by bringing the hue at the position of the recess close to the hue of the backsheet, the user can feel that the bottom of the recess is close to the

position of the backsheet in the thickness direction. This makes the user feel that the thickness of the recess is thick, so that the thickness of the absorbent sheet for pets can be more easily felt by the user.

(2) Configuration of Absorbent Sheet for Pets

Hereinafter, the absorbent sheet for pets according to the embodiment will be described with reference to the drawings. In the following description of the drawings, the same or similar parts are denoted by the same or similar reference symbols. However, note that the drawings are schematic, and ratios of dimensions are different from actual ones. Therefore, specific dimensions and the like are determined in consideration of the following description. Moreover, there may be portions where dimensional relationships or proportions are different among the drawings.

In the present specification, "pet" broadly encompasses vertebrates and invertebrates, and typically includes pets such as cats, dogs, rabbits, and hamsters.

FIG. 1 is a plan view of the absorbent sheet for pets according to the first embodiment. FIG. 2 is a schematic cross-sectional view of the absorbent sheet for pets taken along line A-A shown in FIG. 1. An absorbent sheet for pets **10** is a generally flat sheet. One face of the absorbent sheet for pets **10** is a face that receives pet excreta, and is also referred to as an "excretion face" below. FIG. 1 is a plan view of the absorbent sheet for pets as seen from the excretion face.

The absorbent sheet for pets **10** includes a topsheet **12** disposed on the top side, a backsheet **14** disposed on the back side, and an absorber **20**. The absorber **20** is provided between the topsheet **12** and the backsheet **14**.

The topsheet **12** may be a liquid-permeable sheet that liquid such as pet excreta permeates. The liquid-permeable sheet may be composed of, for example, a liquid-permeable nonwoven fabric or an opening film.

The backsheet **14** may be a liquid-impermeable sheet that liquid such as pet excreta does not permeate. The backsheet **14** is not particularly limited, but may be composed by, for example, a resin film sheet.

In the present embodiment, part of the backsheet **14** extends outward of the topsheet **12**. Therefore, the backsheet **14** can be visually recognized from the excretion face for the outer peripheral portion of the absorbent sheet for pets **10**.

The absorber **20** may include an absorbent core **30** and a core wrap **33** that wraps the absorbent core **30**. The core wrap **33** may include a cover layer **34** that covers the excretion face side of the absorbent core **30**, and a wrap layer **35** that covers the side face and the back face of the absorbent core **30**. In this case, the absorbent core **30** is wrapped by the cover layer **34** and the wrap layer **35**. The cover layer **34** and the wrap layer **35** are not particularly limited, but can be composed of, for example, a liquid-permeable tissue.

The absorbent core **30** may include, but is not limited to, a hydrophilic fiber **31** such as pulp, and a super absorbent polymer (SAP) **32**, or a combination thereof. As an example, in the present embodiment, the super absorbent polymer (SAP) **32** is provided on the hydrophilic fiber layer **31**. The hydrophilic fiber layer **31** may be wrapped with a tissue layer (not shown).

The absorbent sheet for pets **10** has a recess **50** that is recessed in a direction from the topsheet **12** toward the backsheet **14**. Hereinafter, this recess **50** is referred to as a "top recess **50**" for convenience. The top recess **50** may be formed at least on the absorber **20**.

At least one top recess **50** may be provided on the absorber **20**. In the present embodiment, a large number of

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dot-shaped top recesses **50** are provided. These dot-like top recesses **50** may be arranged so as to form an intermittent line. Alternatively, the top recesses **50** may extend linearly or curvilinearly to form a continuous line.

The top recess **50** may be formed by at least an embossed portion obtained by compressing the absorber **20**. This embossed portion may be formed by compressing only the absorber **20**, or may be formed by compressing both the absorber **20** and the topsheet **12**. When the top recess **50** is formed by an embossed portion, the density of the absorber **20** at the position of the top recess **50** is higher than the density of the absorber **20** around the top recess **50**.

Alternatively, the top recess **50** may be configured by lowering at least the basis weight of the absorber **20**. In this case, the basis weight of the absorber **20** at the position of the top recess **50** may be lower than the basis weight of the absorber **20** around the top recess **50**.

The absorbent sheet for pets **10** has a functional material **40**. The functional material **40** may include a water resistant agent, a colorant or a drug, or a combination thereof. The water resistant agent may contain, for example, a water resistant resin. As an example of the water resistant agent, an acrylic water resistant resin can be used. When the water resistant agent contains a water resistant resin, a coating film of the water resistant agent can be easily formed at the position of the top recess **50** by solidifying the resin by volatilization/drying after discharging the solvent containing the resin to the recess.

The colorant may be composed of any agent that can color the position of the top recess **50**. The colorant may be hydrophilic or hydrophobic. Preferably, the colorant has a hydrophobic or a water resistant agent.

The functional material **40** is provided at the position of the top recess **50**. Preferably, the functional material **40** is provided closer to the absorber **20** than the topsheet **12** at the position of the top recess **50**. In the present embodiment, the functional material **40** is provided on the cover layer **34** constituting the absorber **20** at the position of the top recess **50** as an example.

The functional material **40** is provided at the position of the top recess **50**, in other words, at a position recessed relative to the outermost top face of the absorbent sheet for pets **10**. Therefore, even when the pet scratches the outermost top face of the absorbent sheet for pets **10**, the outflow of the functional material **40** can be suppressed.

When the functional material **40** is provided on the top recess **50**, the top recesses **50** are preferably formed by at least an embossed portion obtained by compressing the absorber **20**. The embossed portion is generally formed by compressing at least the absorber **20** with a projection formed on the emboss roller. By applying the functional material **40** to the projection of the emboss roller, the functional material **40** can be accurately transferred to the position of the embossed portion. That is, the functional material **40** can be easily transferred accurately to the embossed portion with the top recess **50** formed by the embossed portion.

In one aspect, the functional material **40** preferably includes a water resistant agent. A water resistant agent can control the diffusion of pet excreta. In this aspect, the water resistant agent is provided at the position of the top recess **50**, and is present at a position recessed relative to the top face of the absorber **20** in the thickness direction. Therefore, it is possible to prevent excreta absorbed by the absorber **20** from spreading in a circular shape inside the absorber **20**.

When it is possible to suppress the spread of excreta which was discharged once, it is possible to secure a region

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that has not absorb excreta, so that the pet can perform the excretion action again in the region that has not absorbed excreta. For example, a pet such as dogs has the habit of not performing the excretion action again where urinary traces are visible. Therefore, when the diffusion of excreta can be appropriately controlled by the water resistant agent and the pattern of the top recesses **50**, the absorbent sheet for pets **10** can be continuously used for a long period of time during which the excretion action is performed a plurality of times.

In order to exhibit such an effect more, it is preferable that the top recesses **50** be provided so as to form a continuous or intermittent line. In this specification, the "intermittent line" is defined by an imaginary line that connects the top recesses **50** that are close enough to be regarded as an "intermittent line" by the user's vision. In particular, the imaginary line is defined by a line connecting a top recess **50** that exists at a position away from a specific top recess **50** by a distance not more than 1.5 times the distance between the specific top recess **50** and a top recess **50** closest to the specific top recess **50** and the specific top recess **50**. Further, as an example, the imaginary line may be defined by a line connecting the top recesses **50** having an interval of 1 cm or less, more preferably 5 mm or less therebetween.

The functional material **40** may have hydrophobicity. In general, when the absorbent sheet for pets **10** absorbs pet excreta, for example, urine, the region that has absorbed the excreta has a dull color. In this aspect, by providing a functional material **40** having hydrophobicity at the position of the top recess **50**, the void between the fibers on the surface of the top recesses **50** is covered with the functional material **40**, and it is difficult to absorb the excreta at the position of the top recess **50**. Therefore, even when the absorbent sheet for pets **10** absorbs excreta, there is a difference in appearance between the position of the top recess **50** and the region around the top recess **50**. As a result, the user can distinguish easily the region which is wet with excreta, and the region which is not wet. The user can easily recognize the timing of replacing the absorbent sheet for pets **10** by recognizing the wet region and the non-wet region.

According to one aspect, the functional material **40** preferably includes a colorant. When the colorant is provided at the position of the top recess **50**, a color difference occurs between the position of the top recesses **50** and the region around the top recesses **50** when viewed from the topsheet **12** side. This color difference makes it easier for the user to recognize the depth of the top recess **50**, and hence the thickness of the absorbent sheet for pets **10**. When the user feels that the absorbent sheet for pets **10** is thick, it is possible to give the user a sense of security that the absorbent sheet for pets **10** can withstand the excretion action a plurality of times.

The colorant can give a difference between the saturation at the position of the top recess **50** and the saturation at the region around the top recess **50** of the absorbent sheet for pets **10**. When viewed from the topsheet **12** side, the saturation at the position of the top recess **50** is preferably higher than the saturation at the region around the top recess **50**. By making the color at the position of the top recess **50** vivid than that at the region around the top recess **50**, the user can more easily recognize the color difference between the position of the top recesses **50** and the region around the top recess **50**. Therefore, the user can more easily feel the thickness of the absorbent sheet for pets **10**.

The saturation at the region around the top recess **50** is preferably less than 5%. In the present specification, hue, saturation, and lightness are defined by the HSV color space

(also referred to as HSB color space) (hereinafter the same applies). As a result, the region around the top recess 50 becomes achromatic. Accordingly, the top recesses 50 having more vivid saturation is arranged in the background region of the achromatic color. As a result, the user feels the depth of the top recess 50 deeper due to the illusion effect. Therefore, the thickness of the absorbent sheet for pets 10 can be easily felt by the user.

Furthermore, when the top recess 50 having more vivid saturation is arranged in the region of the white background, the user feels the depth of the top recess 50 deeper due to the illusion effect. From such a viewpoint, it is more preferable that the region around the top recess 50 be substantially white. For example, it is preferable that the saturation at the region around the top recess 50 be less than 5% and the lightness is 90% or more.

The difference between the saturation at the position of the top recess 50 and the saturation at the region around the top recess 50 when viewed from the topsheet is preferably relatively large, specifically 10% or more. As a result, the user can more easily recognize the color difference between the position of the top recess 50 and the region around the top recess 50, and thereby, can more easily feel the thickness of the absorbent sheet for pets 10.

When part of the backsheet 14 extends outward of the topsheet 12, the difference between the saturation at the position of the top recess 50 and the saturation of the backsheet 14 is preferably relatively small, specifically less than 5% when viewed from the excretion face. By bringing the saturation at the position of the top recess 50 close to the saturation of the backsheet 14, the user can feel that the bottom of the top recess 50 is close to the position of the backsheet 14 in the thickness direction. This makes the user feel that the thickness of the top recess 50 is thick, so that the thickness of the absorbent sheet for pets 10 can be more easily felt by the user.

When viewed from the excretion face side, the difference between the hue at the position of the top recess 50 and the hue of the backsheet 14 is preferably relatively small, specifically less than 30 degrees. By bringing the hue at the position of the top recess 50 close to the hue of the backsheet 14, the user can feel that the bottom of the top recess 50 is close to the position of the backsheet 14 in the thickness direction. This makes the user feel that the thickness of the top recess 50 is thick, so that the thickness of the absorbent sheet for pets 10 can be more easily felt by the user.

The hue, saturation, and lightness in the HSV color space can be validated by visual comparison with a color sample prepared in advance.

Next, the results of sensory evaluation of the absorbent sheet for pets will be described with reference to Comparative Examples 1 and 2 and Examples 1 to 4. Comparative Example 1 is an absorbent sheet for pets that does not include the colorant as the functional material 40 and the top recesses 50. Other configurations of the absorbent sheet for pets of Comparative Example 1 are the same as those of the absorbent sheet for pets 10 shown in FIGS. 1 and 2.

Comparative Example 2 is an absorbent sheet for pets that has the top recesses 50 but does not contain a colorant as the functional material 40. Other configurations of the absorbent sheet for pets of Comparative Example 2 are the same as those of the absorbent sheet for pets 10 shown in FIGS. 1 and 2.

Examples 1 to 4 are the absorbent sheet for pets 10 including the top recesses 50 and a colorant as the functional

material 40. The thicknesses of the absorbent sheet for pets according to Comparative Examples 1 and 2 and Examples 1 to 4 are all the same.

Here, in Comparative Examples 1 and 2 and Examples 1 to 4, the topsheet 12 is white, the saturation of the topsheet 12 itself is 0%, and the lightness of the topsheet 12 itself is 100%. Therefore, in Comparative Example 2, the saturation at the position of the top recesses 50 is 0%, and the lightness at the position of the top recesses 50 is 100%.

In Examples 1 to 4, the saturation and the hue at the position of the top recesses 50 are different from those of Comparative Example 2 due to the colorant as the functional material 40. Specifically, in Examples 1 to 4, the lightness at the position of the top recesses 50 is 100%.

In Examples 1 and 3, the saturation at the position of the top recesses 50 is 10%. In Examples 2 and 4, the saturation at the position of the top recesses 50 is 50%. In Examples 1 and 2, the hue at the position of the top recesses 50 is 155 degrees. Furthermore, in Examples 3 and 4, the hue at the position of the top recesses 50 is 280 degrees.

The sensory evaluation was performed as follows. Ten people compared each of the absorbent sheet for pets according to Comparative Example 2 and Examples 1 to 4 with the absorbent sheet for pets according to Comparative Example 1. As a result, whether the respective absorbent sheet for pets according to Comparative Example 2 and Examples 1 to 4 “look thick”, “look unchanged in thickness”, or “look thin”, compared with the absorbent sheet for pets of Comparative Example 1 was evaluated. In Table 1 below, the number of people who answered “look thicker”, “look unchanged in thickness”, or “look thinner” is shown.

TABLE 1

	Com- parative Example 1	Com- parative Example 2	Ex- ample 1	Ex- ample 2
Top recess	None	Present	Present	Present
Colorant	None	None	Present	Present
Saturation at the position of the top recess	—	0%	10%	50%
Lightness at the position of the top recess	—	100%	100%	100%
Hue at the position of the top recess	—	—	155 degrees	155 degrees
Sensory evaluation results	—	4	10	9
Look thicker	—	5	0	1
Look unchanged	—	1	0	0
Look thinner	—	—	—	—

As a result of the sensory evaluation, the number of people who answered that the absorbent sheet for pets (Examples 1 to 4) including the top recesses 50 and the colorant as the functional material 40 look thicker than the sheet of Comparative Example 1 has increased significantly. That is, it has been found that by providing a colorant at the position of the top recesses 50, the user can recognize that the absorbent sheet for pets is thicker. In addition, from the results of Examples 1 to 4, when the difference between the saturation at the position of the top recesses 50 and the saturation around the top recesses 50 when viewed from the topsheet is 10% or more, it has been found that the user can feel the thickness of the absorbent sheet for pets sufficiently.

As mentioned above, although the present invention is explained in detail using the above-mentioned embodiments, it will be apparent to those skilled in the art that the present invention is not limited to the embodiments described herein. The present invention can be implemented as modifications and changes without departing from the

spirit and scope of the present invention defined by the description of the claims. Accordingly, the description of the present specification is for the purpose of illustration and is not intended to limit the present invention in any way.

Note that the entire contents of Japanese Patent Application No. 2017-118129 filed on Jun. 15, 2017 are incorporated by reference herein.

INDUSTRIAL APPLICABILITY

According to the above aspect, the absorbent sheet for pets which can suppress the outflow of a functional material can be provided.

REFERENCE SIGNS LIST

- 10: pets
- 12: topsheet
- 14: backsheet
- 20: absorber
- 30: absorbent core
- 40: functional material
- 50: recess

The invention claimed is:

1. An absorbent sheet for pets comprising:
 - a topsheet having a first surface forming an excretion face and a second surface opposite to the first surface; and a backsheet;
 - an absorber provided between the topsheet and the backsheet wherein a top surface of the absorber faces the second surface of the top sheet;
 - a functional material with hydrophobicity or water resistance; and
 - an embossed portion formed along the top surface of the absorber by compressing only the absorber wherein the embossed portion is recessed in a direction away from the top surface of the absorber toward the backsheet, wherein
 - at a position of the embossed portion, the functional material is provided on the embossed portion of the absorber
 - the embossed portion is dot-shaped, and
 - a plurality of the embossed portion is arranged so as to form intermittent lines in a plan view of the absorbent sheet, and
 - the intermittent lines are spiral.
2. The absorbent sheet for pets according to claim 1, wherein the functional material includes a water resistant agent.
3. The absorbent sheet for pets according to claim 2, wherein the water resistant agent includes a water resistant resin.

4. The absorbent sheet for pets according to claim 1, wherein the functional material includes a colorant.

5. The absorbent sheet for pets according to claim 4, wherein a difference between a saturation defined by a HSV color space at a position of the recess and a saturation defined by a HSV color space at a region around the recess when viewed from the topsheet is 10% or more.

6. The absorbent sheet for pets according to claim 4, wherein the saturation defined by a HSV color space at the position of the recess is higher than the saturation defined by a HSV color space at the region around the recess.

7. The absorbent sheet for pets according to claim 4, wherein the saturation defined by a HSV color space at the region around the recess is less than 5%.

8. The absorbent sheet for pets according to claim 4, wherein
part of the backsheet extends outwardly than the topsheet in a plan view of the absorbent sheet, and
a difference between the saturation defined by a HSV color space at the position of the recess and a saturation defined by a HSV color space of the backsheet is less than 5%.

9. The absorbent sheet for pets according to claim 4, wherein
part of the backsheet extends outwardly than the topsheet in a plan view of the absorbent sheet, and
a difference between a hue defined by a HSV color space at the position of the recess and a hue defined by a HSV color space of the backsheet is less than 30 degrees.

10. The absorbent sheet for pets according to claim 1, wherein the functional material includes a water resistant agent.

11. The absorbent sheet for pets according to claim 5, wherein the saturation at the position of the recess is higher than the saturation at the region around the recess.

12. The absorbent sheet for pets according to claim 5, wherein the saturation at the region around the recess is less than 5%.

13. The absorbent sheet for pets according to claim 5, wherein
part of the backsheet extends outwardly than the topsheet in a plan view of the absorbent sheet, and
a difference between the saturation at the position of the recess and a saturation of the backsheet is less than 5%.

14. The absorbent sheet for pets according to claim 5, wherein
part of the backsheet extends outwardly than the topsheet in a plan view of the absorbent sheet, and
a difference between a hue defined by a HSV color space at the position of the recess and a hue defined by a HSV color space of the backsheet is less than 30 degrees.